Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1341/2021-22	Date	09-06-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	09-06-2021
Source of Sample	Supplied by the Client
Date of Testing	10-06-2021
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	312.2	312.2	3.12	96.88	95-100
22.4	2546.4	2858.6	28.59	71.41	60-80
11.2	2546.2	5404.8	54.05	45.95	40-60
4.75	1325.8	6730.6	67.31	32.69	25-40
2.36	1242	7972.6	79.73	20.27	15-30
0.6	768.8	8741.4	87.41	12.59	8--22
0.75	765.4	9506.8	95.07	4.93	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.76	Should not be more than 2%
2	Flakiness & Elongation Index	26.9%	Shall not be more than 40%
3	Aggregate Crushing Value	20.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1342/2021-22	Date	14-06-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	14-06-2021
Source of Sample	Supplied by the Client
Date of Testing	15-06-2021
Technical Referance	MORTH Specifications

WMM MATERIAL		***10000***			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	298.6	298.6	2.99	97.01	95-100
22.4	2867.2	3165.8	31.66	68.34	60-80
11.2	3002.4	6168.2	61.68	38.32	40-60
4.75	1764.8	7933	79.33	20.67	25-40
2.36	998.6	8931.6	89.32	10.68	15-30
0.6	1002.4	9934	99.34	0.66	8--22
0.75	26.2	9960.2	99.60	0.40	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.87%	Should not be more than 2%
2	Flakiness & Elongation Index	29.8%	Shall not be more than 40%
3	Aggregate Crushing Value	19.5%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1143/2021-22	Date	19-06-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	19-06-2021
Source of Sample	Supplied by the Client
Date of Testing	20-06-2021
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	298	298	2.98	97.02	95-100
22.4	2612	2910	29.10	70.90	60-80
11.2	2460	5370	53.70	46.30	40-60
4.75	1462	6832	68.32	31.68	25-40
2.36	1168	8000	80.00	20.00	15-30
0.6	986	8986	89.86	10.14	8--22
0.75	532.4	9518.4	95.18	4.82	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.81	Should not be more than 2%
2	Flakiness & Elongation Index	27.2%	Shall not be more than 40%
3	Aggregate Crushing Value	21.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1144/2021-22	Date	01-07-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	01-07-2021
Source of Sample	Supplied by the Client
Date of Testing	02-07-2021
Technical Referance	MORTH Specifications

WMM MATERIAL		***10000***			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	332	332	3.32	96.68	95-100
22.4	2784	3116	31.16	68.84	60-80
11.2	2954	6070	60.70	39.30	40-60
4.75	1653	7723	77.23	22.77	25-40
2.36	998.8	8721.8	87.22	12.78	15-30
0.6	816.4	9538.2	95.38	4.62	8--22
0.75	226.4	9764.6	97.65	2.35	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.87%	Should not be more than 2%
2	Flakiness & Elongation Index	29.8%	Shall not be more than 40%
3	Aggregate Crushing Value	19.5%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1345/2021-22	Date	09-07-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	09-07-2021
Source of Sample	Supplied by the Client
Date of Testing	10-07-2021
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	312.2	312.2	3.12	96.88	95-100
22.4	2546.4	2858.6	28.59	71.41	60-80
11.2	2546.2	5404.8	54.05	45.95	40-60
4.75	1325.8	6730.6	67.31	32.69	25-40
2.36	1242	7972.6	79.73	20.27	15-30
0.6	768.8	8741.4	87.41	12.59	8--22
0.75	765.4	9506.8	95.07	4.93	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.76	Should not be more than 2%
2	Flakiness & Elongation Index	26.9%	Shall not be more than 40%
3	Aggregate Crushing Value	20.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಪ.ಪಂ.ಪಾ. ಬೆಂಗಳೂರು-24

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1346/2021-22	Date	24-07-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	24-07-2021
Source of Sample	Supplied by the Client
Date of Testing	25-07-2021
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	298.6	298.6	2.99	97.01	95-100
22.4	2867.2	3162.3	31.62	68.38	60-80
11.2	3002.4	6154.3	61.54	38.46	40-60
4.75	1764.8	7905.6	79.06	20.94	25-40
2.36	998.6	8911.4	89.11	10.89	15-30
0.6	1002.4	9915.8	99.16	0.84	8--22
0.75	26.2	9942	99.42	0.58	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.87%	Should not be more than 2%
2	Flakiness & Elongation Index	29.8%	Shall not be more than 40%
3	Aggregate Crushing Value	19.5%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1347/2021-22	Date	06-09-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	06-09-2021
Source of Sample	Supplied by the Client
Date of Testing	07-09-2021
Technical Referance	MORTH Specifications

WMM MATERIAL		***10000***			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	298.6	297.2	2.97	97.03	95-100
22.4	2867.2	3181.3	31.81	68.19	60-80
11.2	3002.4	6139.6	61.40	38.60	40-60
4.75	1764.8	7906.3	79.06	20.94	25-40
2.36	998.6	8911.4	89.11	10.89	15-30
0.6	1002.4	9915.8	99.16	0.84	8--22
0.75	26.2	9942	99.42	0.58	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.87%	Should not be more than 2%
2	Flakiness & Elongation Index	29.8%	Shall not be more than 40%
3	Aggregate Crushing Value	19.5%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1348/2021-22	Date	28-09-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	28-09-2021
Source of Sample	Supplied by the Client
Date of Testing	29-09-2021
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	312.2	312.2	3.12	96.88	95-100
22.4	2546.4	2858.6	28.59	71.41	60-80
11.2	2546.2	5404.8	54.05	45.95	40-60
4.75	1325.8	6730.6	67.31	32.69	25-40
2.36	1242	7972.6	79.73	20.27	15-30
0.6	768.8	8741.4	87.41	12.59	8--22
0.75	765.4	9506.8	95.07	4.93	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.76	Should not be more than 2%
2	Flakiness & Elongation Index	26.9%	Shall not be more than 40%
3	Aggregate Crushing Value	20.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No+A1:K2A1:K	KMTH/DGBM/1347/2021-22	Date	03-08-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	03-08-2021
Source of Sample	Supplied by the Client
Date of Testing	03-08-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	62.2	62.2	6.22	93.78	90-100
19	232.2	294.4	29.44	70.56	71-95
13.2	162.2	456.6	45.66	54.34	56-80
4.75	117.2	573.8	57.38	42.62	38-54
2.36	121.2	695	69.50	30.50	28-42
0.3	142.6	837.6	83.76	16.24	7--21
0.075	110.2	947.8	94.78	5.22	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	520.0	489.8	30.20	5.81
2	518.6	488.4	30.20	5.82
3	515.4	487.6	27.80	5.39
4	517.2	488.8	28.40	5.49

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1348/2021-22	Date	04-08-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	04-08-2021
Source of Sample	Supplied by the Client
Date of Testing	04-08-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	52.4	52.4	5.24	94.76	90-100
19	232.6	285	28.50	71.50	71-95
13.2	142.2	427.2	42.72	57.28	56-80
4.75	100.2	527.4	52.74	47.26	38-54
2.36	162.2	689.6	68.96	31.04	28-42
0.3	186.6	876.2	87.62	12.38	7--21
0.075	96.6	972.8	97.28	2.72	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	481.6	28.40	5.57
2	512.2	482.2	30.00	5.86
3	510.4	481.2	29.20	5.72
4	514.2	486.8	27.40	5.33

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1349/2021-22	Date	05-08-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	05-08-2021
Source of Sample	Supplied by the Client
Date of Testing	05-08-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	64.2	64.2	6.42	93.58	90-100
19	202.4	266.6	26.66	73.34	71-95
13.2	162.2	428.8	42.88	57.12	56-80
4.75	113.4	542.2	54.22	45.78	38-54
2.36	158.6	700.8	70.08	29.92	28-42
0.3	192.4	893.2	89.32	10.68	7--21
0.075	98.2	991.4	99.14	0.86	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	512.2	481.6	30.60	5.97
2	513.2	483.2	30.00	5.85
3	512.2	484.2	28.00	5.47
4	514.2	485.6	28.60	5.56

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1350/2021-22	Date	07-08-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	07-08-2021
Source of Sample	Supplied by the Client
Date of Testing	07-08-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***	***GRADE-II***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	59.6	59.6	5.96	94.04	90-100
19	242.2	301.8	30.18	69.82	71-95
13.2	156.6	458.4	45.84	54.16	56-80
4.75	118.4	576.8	57.68	42.32	38-54
2.36	126.2	703	70.30	29.70	28-42
0.3	152.2	855.2	85.52	14.48	7--21
0.075	126.2	981.4	98.14	1.86	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.6	482.6	28.00	5.48
2	510.2	480.2	30.00	5.88
3	509.8	481.4	28.40	5.57
4	509.6	482.2	27.40	5.38

* *As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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ಬ್ಯಾಡರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1351/2021-22	Date	26-08-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	26-08-2021
Source of Sample	Supplied by the Client
Date of Testing	26-08-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	50.2	50.2	5.02	94.98	90-100
19	230.2	280.4	28.04	71.96	71-95
13.2	141.2	421.6	42.16	57.84	56-80
4.75	106.4	528	52.80	47.20	38-54
2.36	162.2	690.2	69.02	30.98	28-42
0.3	176.8	867	86.70	13.30	7--21
0.075	96.6	963.6	96.36	3.64	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	508.4	479.6	28.80	5.66
2	508.6	478.2	30.40	5.98
3	509.4	477.2	32.20	6.32
4	507.8	478.4	29.40	5.79

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1352/2021-22	Date	29-08-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	29-08-2021
Source of Sample	Supplied by the Client
Date of Testing	29-08-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	59.4	59.4	5.94	94.06	90-100
19	200.2	259.6	25.96	74.04	71-95
13.2	159.8	419.4	41.94	58.06	56-80
4.75	109.8	529.2	52.92	47.08	38-54
2.36	158.6	687.8	68.78	31.22	28-42
0.3	202.0	889.8	88.98	11.02	7--21
0.075	96.8	986.6	98.66	1.34	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	480.0	30.00	5.88
2	510.2	479.6	30.60	6.00
3	509.8	481.0	28.80	5.65
4	510.2	481.2	29.00	5.68

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No+A1:K2A1:K	KMTH/DGBM/1353/2021-22	Date	05-09-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	05-09-2021
Source of Sample	Supplied by the Client
Date of Testing	05-09-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	58.8	58.8	5.88	94.12	90-100
19	212.2	271	27.10	72.90	71-95
13.2	142.6	413.6	41.36	58.64	56-80
4.75	113.6	527.2	52.72	47.28	38-54
2.36	132.2	659.4	65.94	34.06	28-42
0.3	150.4	809.8	80.98	19.02	7--21
0.075	119.6	929.4	92.94	7.06	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	511.2	481.2	30.00	5.87
2	512.2	480.6	31.60	6.17
3	510.6	479.6	31.00	6.07
4	511.4	481.0	30.40	5.94

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

rt No	KMTH/DGBM/1354/2021-22	Date	11-09-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

e of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
ıe of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
d Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
ne of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
rk Order No	BBMP/EE/BTP/WO/03/2021-22
) Code No	005-20-000075 Indent No 42310
ents Letter Dated	11-09-2021
urce of Sample	Supplied by the Client
te of Testing	11-09-2021
chnical Referance	MORTH SPECIFICATIONS

MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	52.4	52.4	5.24	94.76	90-100
19	232.6	285	28.50	71.50	71-95
13.2	142.2	427.2	42.72	57.28	56-80
4.75	100.2	527.4	52.74	47.26	38-54
2.36	162.2	689.6	68.96	31.04	28-42
0.3	186.6	876.2	87.62	12.38	7--21
0.075	96.6	972.8	97.28	2.72	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	481.6	28.40	5.57
2	512.2	482.2	30.00	5.86
3	510.4	481.2	29.20	5.72
4	514.2	486.8	27.40	5.33

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1355/2021-22	Date	16-09-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	16-09-2021
Source of Sample	Supplied by the Client
Date of Testing	16-09-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	91.4	91.4	9.14	90.86	90-100
19	197.6	289	28.90	71.10	71-95
13.2	152.6	441.6	44.16	55.84	56-80
4.75	110.2	551.8	55.18	44.82	38-54
2.36	148.2	700	70.00	30.00	28-42
0.3	202.2	902.2	90.22	9.78	7--21
0.075	62.2	964.4	96.44	3.56	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	512.2	481.6	30.60	5.97
2	513.2	483.2	30.00	5.85
3	512.2	484.2	28.00	5.47
4	514.2	485.6	28.60	5.56

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1356/2021-22	Date	12-10-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	12-10-2021
Source of Sample	Supplied by the Client
Date of Testing	12-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	81.2	81.2	8.12	91.88	90-100
19	186.8	268	26.80	73.20	71-95
13.2	142.2	410.2	41.02	58.98	56-80
4.75	106.4	516.6	51.66	48.34	38-54
2.36	147.6	664.2	66.42	33.58	28-42
0.3	198.2	862.4	86.24	13.76	7--21
0.075	63.2	925.6	92.56	7.44	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	506.4	476.6	29.80	5.88
2	508.4	475.4	33.00	6.49
3	507.2	475.8	31.40	6.19
4	506.2	476.2	30.00	5.93

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

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Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1357/2021-22	Date	19-07-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	18-07-2021
Source of Sample	Supplied by the Client
Date of Testing	19-07-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	42.6	42.6	4.26	95.74	90-100
9.5	232.6	275.2	27.52	72.48	70-88
4.75	145.2	420.4	42.04	57.96	53-71
2.36	98.6	519	51.90	48.10	42-58
1.18	72.6	591.6	59.16	40.84	34-48
0.6	81.2	672.8	67.28	32.72	26-38
0.3	78.4	751.2	75.12	24.88	18-28
0.15	86.8	838	83.80	16.20	12--20
0.075	98.8	936.8	93.68	6.32	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	518.4	485.6	32.80	6.33
2	516.8	481.2	35.60	6.89
3	515.2	483.2	32.00	6.21
4	510.4	481.2	29.20	5.72

* *As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1357/2021-22	Date	19-07-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	18-07-2021
Source of Sample	Supplied by the Client
Date of Testing	19-07-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	42.6	42.6	4.26	95.74	90-100
9.5	232.6	275.2	27.52	72.48	70-88
4.75	145.2	420.4	42.04	57.96	53-71
2.36	98.6	519	51.90	48.10	42-58
1.18	72.6	591.6	59.16	40.84	34-48
0.6	81.2	672.8	67.28	32.72	26-38
0.3	78.4	751.2	75.12	24.88	18-28
0.15	86.8	838	83.80	16.20	12--20
0.075	98.8	936.8	93.68	6.32	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	518.4	485.6	32.80	6.33
2	516.8	481.2	35.60	6.89
3	515.2	483.2	32.00	6.21
4	510.4	481.2	29.20	5.72

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1358/2021-22	Date	30-07-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	29-07-2021
Source of Sample	Supplied by the Client
Date of Testing	30-07-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	32.4	32.4	3.24	96.76	90-100
9.5	262.4	294.8	29.48	70.52	70-88
4.75	149.8	444.6	44.46	55.54	53-71
2.36	102.4	547	54.70	45.30	42-58
1.18	86.4	633.4	63.34	36.66	34-48
0.6	86.4	719.8	71.98	28.02	26-38
0.3	72.4	792.2	79.22	20.78	18-28
0.15	86.4	878.6	87.86	12.14	12--20
0.075	56.2	934.8	93.48	6.52	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	509.4	480.2	29.20	5.73
2	505.2	472.4	32.80	6.49
3	500.2	465.2	35.00	7.00
4	506.2	477.8	28.40	5.61

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1360/2021-22	Date	27.08.2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	27-08-2021
Source of Sample	Supplied by the Client
Date of Testing	27-08-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	32.2	32.2	3.22	96.78	90-100
9.5	198.6	230.8	23.08	76.92	70-88
4.75	152.2	383	38.30	61.70	53-71
2.36	102.2	485.2	48.52	51.48	42-58
1.18	91.2	576.4	57.64	42.36	34-48
0.6	98.6	675	67.50	32.50	26-38
0.3	46.6	721.6	72.16	27.84	18-28
0.15	112.6	834.2	83.42	16.58	12--20
0.075	82.4	916.6	91.66	8.34	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	500.2	472.2	28.00	5.60
2	502.4	471.2	31.20	6.21
3	502.6	470.6	32.00	6.37
4	502.4	470.8	31.60	6.29

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1361/2021-22	Date	30-08-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	29-08-2021
Source of Sample	Supplied by the Client
Date of Testing	30-08-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	29.4	29.4	2.94	97.06	90-100
9.5	252.2	281.6	28.16	71.84	70-88
4.75	152.6	434.2	43.42	56.58	53-71
2.36	112.4	546.6	54.66	45.34	42-58
1.18	90.4	637	63.70	36.30	34-48
0.6	106.4	743.4	74.34	25.66	26-38
0.3	55.4	798.8	79.88	20.12	18-28
0.15	66.2	865	86.50	13.50	12--20
0.075	82.2	947.2	94.72	5.28	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	506.2	472.6	33.60	6.64
2	508.4	472.4	36.00	7.08
3	508.2	473.2	35.00	6.89
4	506.6	472.6	34.00	6.71

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1362/2021-22	Date	03-09-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	02-09-2021
Source of Sample	Supplied by the Client
Date of Testing	03-09-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	33.2	33.2	3.32	96.68	90-100
9.5	232.2	265.4	26.54	73.46	70-88
4.75	152.4	417.8	41.78	58.22	53-71
2.36	98.6	516.4	51.64	48.36	42-58
1.18	83.6	600	60.00	40.00	34-48
0.6	101.4	701.4	70.14	29.86	26-38
0.3	42.6	744	74.40	25.60	18-28
0.15	72.6	816.6	81.66	18.34	12--20
0.075	106.2	922.8	92.28	7.72	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.2	476.2	34.00	6.66
2	508.4	472.4	36.00	7.08
3	509.4	474.2	35.20	6.91
4	510.0	475.2	34.80	6.82

* *As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1364/2021-22	Date	16-09-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	15-09-2021
Source of Sample	Supplied by the Client
Date of Testing	16-09-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	27.8	27.8	2.78	97.22	90-100
9.5	236.4	264.2	26.42	73.58	70-88
4.75	152.6	416.8	41.68	58.32	53-71
2.36	96.6	513.4	51.34	48.66	42-58
1.18	102.2	615.6	61.56	38.44	34-48
0.6	112.2	727.8	72.78	27.22	26-38
0.3	62.5	790.3	79.03	20.97	18-28
0.15	76.4	866.7	86.67	13.33	12--20
0.075	65.2	931.9	93.19	6.81	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	505.2	473.4	31.80	6.29
2	505.0	473.8	31.20	6.18
3	504.2	474.8	29.40	5.83
4	505.2	472.8	32.40	6.41

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1365/2021-22	Date	12-10-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	12-10-2021
Source of Sample	Supplied by the Client
Date of Testing	12-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	28.4	28.4	2.84	97.16	90-100
9.5	249.6	278	27.80	72.20	70-88
4.75	156.2	434.2	43.42	56.58	53-71
2.36	108.4	542.6	54.26	45.74	42-58
1.18	95.6	638.2	63.82	36.18	34-48
0.6	100.2	738.4	73.84	26.16	26-38
0.3	56.4	794.8	79.48	20.52	18-28
0.15	68.2	863	86.30	13.70	12--20
0.075	78.4	941.4	94.14	5.86	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	505.2	473.4	31.80	6.29
2	505.0	473.8	31.20	6.18
3	504.2	474.8	29.40	5.83
4	505.2	472.8	32.40	6.41

* *As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಪ್ರದೇಶ-1, ಬೆಂಗಳೂರು-26

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1366/2021-22	Date	21-10-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	21-10-2021
Source of Sample	Supplied by the Client
Date of Testing	21-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	29.6	29.6	2.96	97.04	90-100
9.5	256.2	285.8	28.58	71.42	70-88
4.75	172.2	458	45.80	54.20	53-71
2.36	105.4	563.4	56.34	43.66	42-58
1.18	95.6	659	65.90	34.10	34-48
0.6	106.4	765.4	76.54	23.46	26-38
0.3	56.2	821.6	82.16	17.84	18-28
0.15	66.2	887.8	88.78	11.22	12--20
0.075	78.4	966.2	96.62	3.38	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	475.4	34.60	6.78
2	506.4	474.6	31.80	6.28
3	508.8	473.4	35.40	6.96
4	506.4	472.8	33.60	6.64

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
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Approved by
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCslabs/1367/2021-22	Date	21-10-2021

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD Sl. No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005 20 000075 Indent No 42310
Date of Sample Received	21-10-2021
Source of Sample	Supplied by the Client
Size & Shape of Sample	slab Length -920mm, Height-100mm,Width600mm

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
100mm Slab														
1	S-01	50.00	99.98	2.00	1963	35.2	17.94	1.00	17.94	22.42	21.8	0.8210	0.00020	4184.28
2	S-02	50.20	100.00	1.99	1978	34.2	17.29	1.00	17.27	21.59		0.7980	0.00020	4033.91
3	S-03	50.12	99.99	2.00	1972	33.8	17.14	1.00	17.13	21.41		0.8210	0.00020	4163.85

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/1100/2021--22	Date	29-09-2021

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	27-09-2021
Date of Testing	29-09-2021
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	10.2	1.02	1.02	98.98	90 – 100	*90 – 100*	90 – 100	90-100
2.36	28.4	2.84	3.86	96.14	60 – 95	*75 – 100*	85 – 100	95-100
1.18	216.8	21.68	25.54	74.46	30 – 70	*55 – 90*	75 – 100	90-100
0.6	268.4	26.84	52.38	47.62	15 – 34	*35 – 59*	60 – 79	80-100
0.3	284.7	28.47	80.85	19.15	5 – 20	*8 – 30*	12 – 40	15-50
0.15	132.6	13.26	94.11	5.89	0 – 10	*0 – 10*	0 – 10	0-15

* *As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & checked by
Nagaraj K S

Approved by
Narayanswamy.B

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F.Aggregate/1101/2021-22	Date	29.09.2021

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	27-09-2021
Date of Testing	29-09-2021
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	9.8	0.98	0.98	99.02	90 – 100	*90 – 100*	90 – 100	90-100
2.36	63.4	6.34	7.32	92.68	60 – 95	*75 – 100*	85 – 100	95-100
1.18	204.2	20.42	27.74	72.26	30 – 70	*55 – 90*	75 – 100	90-100
0.6	263.2	26.32	54.06	45.94	15 – 34	*35 – 59*	60 – 79	80-100
0.3	220.2	22.02	76.08	23.92	5 – 20	*8 – 30*	12 – 40	15-50
0.15	152.8	15.28	91.36	8.64	0 – 10	*0 – 10*	0 – 10	0-15

* *As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1105/2021-22	Date	01-10-2021

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	27-09-2021
Date of Testing	01-10-2021
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
40	0	0.00	0.00	100.00	100	100	
20	352.6	7.05	7.05	92.95	85-100	90 to 100	
10	4486.8	89.74	96.79	3.21	0 to 20	25 to 55	
4.75	120.2	2.40	99.19	0.81	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
63	0	0.00	0.00	100	100	100	
40	416.8	8.34	8.34	91.66	85-100	90 to 100	
20	2156.8	43.14	51.47	48.53	0 to 20	30 to 70	
10	1268.4	25.37	76.84	23.16	0 to 5	10 to 25	
4.75	986.4	19.73	96.57	3.43	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1106/2021-22	Date	01-10-2021

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	27-09-2021
Date of Testing	01-10-2021
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	198.6	3.97	3.97	96.03	85-100	90 to 100	
10	3268.4	65.37	69.34	30.66	0 to 20	25 to 55	
4.75	1526.4	30.53	99.87	0.13	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	152.8	3.06	3.06	96.94	85-100	90 to 100	
20	2268.4	45.37	48.42	51.58	0 to 20	30 to 70	
10	1872.6	37.45	85.88	14.12	0 to 5	10 to 25	
4.75	526.4	10.53	96.40	3.60	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1109/2021-22	Date	02-10-2021

TEST REPORT ON STEEL

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	28-09-2021
Date of Testing	02-10-2021
Technical Referance	IS: 1786 – 2008 & IS: 1608–2005

Tensile Test

Sl No.	Grade of Steel	Dia in	Weight / unit length (kg/m)	0.2% proof Stress (N/mm2)	Tensile Strength (N/mm2)	Percentage Elongation (on 5.65 ÖAG.L)	Remarks
1	Fe-500	8	0.388	565.40	662.40	19.52	Passes
2		10	0.612	526.84	655.24	22.42	Passes
3		12	0.843	571.40	636.80	21.68	Passes

Bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Angle of bend	Observations
1	8	4 dia	180°	No cracks observed. Passes the test.
2	10	4 dia	180°	No cracks observed. Passes the test.
3	12	4 dia	180°	No cracks observed. Passes the test.

Re bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1	8	5 dia	No cracks observed. Passes the test
2	10	5 dia	No cracks observed. Passes the test
3	12	7 dia	No cracks observed. Passes the test.

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1111/2021-22	Date	30-09-2021

TEST REPORT ON CEMENT

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	27-09-2021
Date of Testing	30-09-2021
Technical Referance	IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 8112-1989

Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency in	27.8	Not specified	-
2	Initial setting time in	159.8	Shall not be less than 30 minutes	P
3	Final setting time in	311	Shall not be more than 600	P
4	Compressive strength (Average of three results) in N/mm2			
a	72+1h (3 days)	25.88	Shall not be less than 23.0 MPa	P
b	168+2h (7 days)	36.41	Shall not be less than 33.0 MPa	P
c	672+4h (28 days)	45.87	Shall not be less than 43.0 MPa	P

** As furnished by the client*

P : Passes IS requirement F: Fails IS requirements

TTC : Test to be conducted

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/1113/2021-22	Date	01-10-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	01-10-2021
Date of Sample Received	01-10-2021
Source of Sample	Supplied by the Client
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	PCC Culvert Concrete	24-09-2021	01-10-2021	7 Days	22500.00	8162	272.6	12.12
2		24-09-2021	01-10-2021		22500.00	8152	273.8	12.17
3		24-09-2021	01-10-2021		22500.00	8145	269.8	11.99

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/1114/2021-22	Date	22-10-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd.,
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Date of Sample Received	22-10-2021
Source of Sample	Supplied by the Client
	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
Grade of Concrete	M10
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	PCC Drain Concrete	24-09-2021	22-10-2021	28 Days	22500.00	8124	372.4	16.55
2		24-09-2021	22-10-2021		22500.00	8120	369.8	16.44
3		24-09-2021	22-10-2021		22500.00	8116	370.2	16.46

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/Cubes/1117/2021-22 Date: 08-10-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	01-10-2021
Date of Sample Received	08-10-2021
Source of Sample	Supplied by the Client
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	Drain Raft Concrete	01-10-2021	08-10-2021	7 Days	22500.00	8264	426.8	18.97
2		01-10-2021	08-10-2021		22500.00	8232	398.8	17.72
3		01-10-2021	08-10-2021		22500.00	8216	412.6	18.34

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/1118/2021-22	Date	28-10-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No:218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Clients Letter Dated	28-10-2021
Date of Sample Received	28-10-2021
Source of Sample	Supplied by the Client
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	Drain Raft Concrete	01-10-2021	28-10-2021	28 Days	22500.00	7998	611.2	27.16
2		01-10-2021	28-10-2021		22500.00	8002	608.8	27.06
3		01-10-2021	28-10-2021		22500.00	8012	608.8	27.06

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

.....End of Report.....

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2)The results listed refer only to the tested samples nd applicable parameters.
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು-24

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCslabs/1127/2021-22	Date	09-11-2021

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Byatarayanapura Division, No2152/20,Defence Colony ,Sahakara Nagara , Bangalore -92
Name of Agency & Address	Sri S.Sathish No.218,2nd Cross ,Nagasandra, Basavanagudi , Bangalore-560028
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and Drains at Palanahalli Chokanahalli Vinayakanagara Dwarakanagara and Surrounding area in ward no :05 Byatarayanapura Sub Division Package -01(old Annexure 2)GD SL No 102,103,104,105.
Work Order No	BBMP/EE/BTP/WO/03/2021-22
Job Code No	005-20-000075 Indent No 42310
Date of Sample Received	07-11-2021
Source of Sample	Supplied by the Client
Number of Specimens*	3 No's Cement Concrete Slabs
Size & Shape of Sample	slab Length -1500mm, Height-250mm,Width460mm

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
250mm Slab														
1	S-01	94.86	192.50	2.03	7064	135.2	19.14	1.00	19.20	24.00	23.6	1.8460	0.00136	1357.58
2	S-02	94.78	190.60	2.01	7052	130.4	18.49	1.00	18.51	23.14		1.5680	0.00134	1166.59
3	S-03	94.68	191.60	2.02	7037	132.4	18.81	1.00	18.86	23.58		1.4680	0.00135	1088.79

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

.....End of Report.....

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